# JOHNSON MANUFACTURING COMPANY
## Safety Data Sheet
To comply with 29CFR 1910.1200
OSHA's Hazard Communication Standard

# Alumasol Flux, 48-50

## 1. PRODUCT AND COMPANY INFORMATION

Johnson Manufacturing Company
114 Lost Grove Road
Princeton IA 52768

Emergency Telephone 1-(563)-289-5123
CHEMTREC AFTER HOURS 1-(800)-424-9300
Revised: 4/1/2026 by JMC Product Safety

## 2. HAZARD IDENTIFICATION

**GHS Classification:**
Acute tox 4
Skin Corr. 1B

**GHS Label Elements:**

**ETHANOLAMINE & FLUOROBORATE**
**DANGER**
**H Codes:** H314, H335, H302, H332
Harmful if swallowed
Harmful if inhaled
Causes severe skin burns and eye damage

**P Codes:** P264, 280, 305+351+338+310, 260, 301+330+331, 303+361+353, 363, 304+340, 310, 321, 405, 501, 312, 270, 322, 330, 301+312, 302+352 Avoid breathing dust/mist/vapors/fumes/spray. Do not get in eyes, on skin, or on clothing. Use in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation use respiratory protection. Do not breathe dust/fume/gas/mist/vapor/spray. Do not eat, drink or smoke when using this product. IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Immediately call a POISON CENTER/Doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Wash with soap & water. Get medical advice/attention if irritation or rash occurs or if you feel unwell. IF INHALED: Remove victim to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call POISON CENTER/Doctor. Wash thoroughly after use. Wash contaminated clothing before reuse. Store in a closed compatible container in cool dry place. Avoid release to the environment. Dispose of contents/container in accordance with specified local/regional/national/international regulations for disposal. Keep out of the reach of children. Read label and SDS prior to use.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Hazardous Component | CAS # | OSHA TWA | ACGIH TWA | Other Limits | Percent by Weight |
|---|---|---|---|---|---|
| Ethanolamine | 141-43-5 | 8 mg/m3 | 8 mg/m3 | NE | |
| Ammonium Fluoborate | 1341-49-7 | 2.5 mg/m3 fume | 2.5 mg/m3 fume | NE | |
| + Zinc Oxide | 1314-13-2 | 5.0 mg/m3 | 5.0 mg/m3 | NE | 5% |

Only those ingredients listed in this section have been determined to be hazardous as defined in 29CFR 1910.1200. An ingredient marked with an asterisk(*) is also listed in 29CFR 1910.1200(D) #4 as a known or suspected cancer hazard.
+ denotes a chemical regulated as toxic by the Environmental Protection Agency (EPA) as outlined in 40CFR Part 372 (section 313)

## 4. FIRST AID MEASURES

**Signs and symptoms of exposure**: Inhalation-Nose & throat irritation, headache, dizziness, difficulty breathing, coughing. Ingestion-nausea, vomiting, cramps. Skin-redness, burning, rash, dryness. Eye-redness, burning, tearing, blurred vision.

**Emergency first aid procedures**:
Skin: Flush with water immediately - Seek medical attention if required.
Eyes: Flush with water for 15 minutes - Seek medical attention.
Ingestion: Drink large amounts of water, DO NOT induce vomiting-seek medical attention.
Never give anything by mouth to an unconscious person.
Inhalation: Remove to fresh air. Support respiration if required. Seek medical attention if required.

## 5. FIREFIGHTING MEASURES

**Extinguishing media**: dry chemical.

**Special fire fighting procedures**: use self sustaining respiratory suit.
**Unusual Fire and Explosion Hazards**: May release ammonia, amines, nitrogen oxides, carbon monoxide, carbon dioxide, various organics.

## 6. ACCIDENTAL RELEASE MEASURES

**Methods and materials**: Flush into chemical sewer or soak up with a suitable absorbent. Wear adequate protection as described in section 8.
**Environmental Precautions:** Avoid release to the environment. Collect spillage.

## 7. HANDLING & STORAGE

Wash thoroughly after use. Wash contaminated clothing before reuse. Store in a closed corrosive resistant container, with corrosive resistant liner, in cool dry place. Keep out of the reach of children. Read label and SDS prior to use.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational Exposure Limit Values:** See section 3.
Respiratory Protection (type): Acid mask required for fumes above TWA.
Ventilation: Local Exhaust preferred Special: NE
Mechanical: OK Other: NE
Protective Gloves: plastic or rubber Eye Protection: Goggles or face shield
Other Protective Clothing or Equipment: as required to avoid contact.
Work/Hygienic Practices: Wash after use. Follow good industrial hygienic practices.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: NE Specific Gravity: 1.38
Vapor Pressure (mm Hg): 8 Melting Point: NE
Vapor Density: 5.0 Evaporation Rate: <1 (butyl acetate=1)
Solubility in water: 100% pH: NE
Flash Point: NE (TOC) Flammable Limits: lel: NE uel: NE
Appearance and odor: Amber liquid, ammonia odor.

## 10. STABILITY AND REACTIVITY

**Stability** : STABLE Conditions to avoid : none

**Incompatibility (materials to avoid)**: strong bases & acids, oxidizers, sulfides, halogens.
**Hazardous Decomposition or Byproducts (incomplete combustion)**: May release ammonia, amines, nitrogen oxides, carbon monoxide, carbon dioxide, various organics.
**Hazardous Polymerization**: WILL NOT OCCUR Conditions to avoid: none

## 11. TOXICOLOGICAL INFORMATION

**Routes of entry**: Inhalation: yes Skin: no Ingestion: yes

**Health Hazards (acute and chronic):** Contact with material or fumes may cause skin, eye and respiratory tract irritation or burns. Severe inhalation can cause pulmonary edema, which may not manifest for several hours after exposure. Ingestion may result in irritation or burning of the digestive tract. Gross inhalation or ingestion can result in death. Chronic exposures can result in permanent liver, kidney and respiratory system effects. Material is combustible. Studies show that health risks vary by individual. Minimize exposure as a precaution.

**Carcinogenicity**: not determined NTP? no IARC Monographs? no

## 12. ECOLOGICAL INFORMATION

**Toxicity:** NE
**Bio-accumulative Potential:** NE
**PBT & vPvB Assessment:** NE
**Persistence & Degradability:** NE
**Mobility in Soil:** NE
**Other Adverse Effects:** NE

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method**: dispose of in accordance with all local state and federal regulations
**Other Precautions:** Avoid skin & eye contact, inhalation & ingestion of fumes and material. Wash contaminated clothing before reuse. Keep away from children. Keep away from spark or flame.

## 14. TRANSPORT INFORMATION

**DOT Classification:** Not regulated as dangerous goods
**IATA Classification:** Not regulated as dangerous goods
**IMDG Classification:** Not regulated as dangerous goods
**Marine Pollutant:** NE

## 15. REGULATORY INFORMATION

This product contains the following EPCRA section 313 chemicals subject to the reporting requirements of section 313 of the Emergency Response and Community Right-To-Know-Act of 1986 (40 CFR 372):

| CAS Number | Chemical Name | Percent by Weight |
|---|---|---|
| 1314-13-2 | Zinc Oxide | 5% |

This information must be included in all SDSs that are copied and distributed for this material.

NFPA Classification (NFPA 325M,8th edition)(Health, Flammability, Reactivity): 2-1-0

## 16. OTHER INFORMATION

The information and recommendations contained within this publication have been compiled from sources believed to be reliable and to represent the best information available to JOHNSON MANUFACTURING at the time of issue. No warranty, guarantee, or representation is made by JOHNSON MANUFACTURING nor does JOHNSON MANUFACTURING assume any responsibility in connection there within; nor can it be assumed that all acceptable safety measures or other safety measures may not be required under particular or exceptional conditions or circumstances.

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